

1 **CD STORAGE CASE**

2 **BACKGROUND OF THE INVENTION**

3 1. Field of the Invention

4 The present invention relates to a CD storage case, and more
5 particularly to a CD storage case that can foldable storage and decrease storage
6 volume.

7 2. Description of Related Art

8 With reference to Fig. 7, a conventional CD storage case has an outer
9 case (40) and a rack (41). The case (40) is rectangle and has a cavity (not
10 numbered), an inside bottom surface (not numbered) and an opening (not
11 numbered). The rack (41) is mounted on the inside bottom surface and inside
12 the inside cavity. The rack (41) has multiple recesses (42) parallel formed on
13 the rack (41). When using the conventional CD storage case, each CD box (30)
14 is inserted into each recess (42) and is hold to stand firmly. However, the
15 conventional CD storage case has following disadvantages:

16 1. Because the shape of the conventional CD storage case is fixed, the
17 conventional CD case takes more space to stored.

18 2. Also, the conventional CD storage case is not convenient to carry
19 because of its volume.

20 To overcome the shortcomings of conventional CD storage case, the
21 present invention provides a CD storage case to mitigate or obviate the
22 aforementioned problem.

23 **SUMMARY OF THE INVENTION**

24 The primary objective of the present invention is to provide a CD

1 storage case has two holders and two racks mounted between the holders. The
2 racks between the holders could be folded inside the holders. When no CD
3 cases put on the CD storage case, the racks could be folded to decrease whole
4 volume.

5 Other objectives, advantages and novel features of the invention will
6 become more apparent from the following detailed description when taken in
7 conjunction with the accompanying drawings.

8 BRIEF DESCRIPTION OF THE DRAWINGS

9 Fig. 1 is a perspective view of a first embodiment of a CD storage case
10 in accordance with the present invention;

11 Fig. 2 is an exploded perspective view of the CD storage case in Fig. 1;

12 Fig. 3 is a top plan view in partial section of the CD storage case in Fig.
13 1;

14 Fig. 4 is a perspective view of the CD storage case in Fig. 1 when the
15 CD storage case is closed;

16 Fig. 5 is a side plan view of the CD storage case in Fig. 1;

17 Fig. 6 is an exploded perspective view of a second embodiment of the
18 CD storage case in accordance with the present invention;

19 Fig. 7 is a perspective view of a conventional CD storage case in
20 accordance with the prior art.

21 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

22 With reference to Figs. 1 and 2, a CD storage case of a first
23 embodiment in accordance with the present invention has two holders (10) and
24 two racks (20).

1 Each of the holders (10) faces each other and has a cavity (not
2 numbered), an opening (not numbered), a sidewall (not numbered), two lateral
3 side walls (not numbered), a top surface (not numbered), a bottom surface (not
4 numbered), a bottom edge (not numbered), two stops (12), two pivot holes (not
5 numbered), four locating holes (13) and a locking device (not numbered). The
6 stops (12) are formed inside the cavity from the inside top surface to the inside
7 bottom surface and respectively near two lateral side walls. Two of the locating
8 holes (13) are respectively defined on the inside top surface and inside bottom
9 surface. Each locating hole (13) is defined beside one of the stops (12) and
10 respectively near the sidewall and the lateral side wall. Two of the locating
11 holes (13) are respectively defined on the top surface and the bottom surface.
12 Each pivot hole is defined near the opening and respectively near the lateral
13 side walls. The locking device comprises a stub (14) and a hole (15). The stub
14 (14) is formed on the bottom edge near one of the lateral side walls, the hole
15 (15) is defined on the bottom edge near the other lateral side wall. When the
16 holders (10) abut together, the stub (14) on one of the holder (10) could insert
17 into the hole (15) on the other holder (10).

18 The racks (20) has two brackets (not numbered) and each rack (20) has
19 a distal end (not numbered), a proximal end (not numbered), a middle portion
20 (not numbered), a top side (not numbered), multiple recesses (27), a pivot
21 portion (not numbered) and two connected portions (21). The connected
22 portions (21) are defined on the distal end and the proximal end of the rack (20).
23 The pivot portion is defined on the middle portion of the rack (20). Each
24 connected portion (21) has a free end (not numbered), a top side (not

1 numbered), a bottom side (not numbered), two pivot posts (23) and two
2 protrusions (26). The protrusions (26) are respectively formed on the top side
3 and the bottom side of the connected portion (21) near the free end. The pivot
4 posts (23) are respectively formed on the top side and the bottom side of the
5 connected portion (21), beside the protrusion (26) and away from free end.
6 Each connected portion further comprises two slots (24) defined transversely
7 through the connected portion and respectively near the top side and the bottom
8 side so that the resilient pieces (25) are formed.

9 The multiple recesses (27) are formed on the top side of the racks (20).
10 The pivot portion is formed between two brackets. The pivot portion comprises
11 a spindle (not numbered) and a spindle bracket (not numbered). The spindle is
12 formed on one of the brackets. The spindle bracket is defined on the other
13 bracket and mounted on the spindle.

14 With reference to Fig. 3, when pull the holders (10) out, the brackets of
15 the rack (20) be extended straight, the protrusions (26) will move into the
16 locating holes (13) so that the racks (20) will not be folded again. Furthermore,
17 the resilient pieces (25) formed on the connected portions provide a resilient
18 force to protrusions (26) so that the action of the racks (20) could be smooth.

19 With reference to Figs. 4 and 5, when the holders (10) abut together,
20 whole the racks (20) can be folded between the holders (10). The racks (20) can
21 be folded because of the pivot portions defined between the brackets. When no
22 CD cases on the recesses (27), the holders (10) CD storage case could be
23 abutted together. Whole the volume of the CD storage case will decrease and
24 become easily stored or carry.

1 With reference to Fig. 6, the CD storage case of a second embodiment
2 in accordance with the present invention has a similar structure as that of the
3 first embodiment shown in Fig. 1 and will not describe again except to notice
4 the specific changes in the second embodiment.

5 The storage case in the second embodiment of the present invention
6 further comprises two holding trays (16) and each holding tray (16) is received
7 inside one of the holders (10').

8 Each holder (10') has two keyways (101') formed on the top surface
9 and respectively near the lateral side walls. The lateral side walls respectively
10 has a stub (102') and a hole (103'). The stub (102') is formed on one of the
11 holder (10') and faces the hole (103') on the other holder (10').

12 Each holding tray (16) has a top surface (not numbered), four corners
13 (not numbered), four extended wings (162) and two keys (161). The keys (161)
14 are formed on the top surface and movable received inside the keyways (101').
15 The extending wings (162) are transversely formed at the corners, respectively.
16 Two locating holes (13') are defined in each respective extending wing (162).
17 When the holding trays (16) are detachably mounted inside the holders (10'),
18 the racks (20) are pivotally hold by the locating holes (13') in the extending
19 wings (162). Because the holding trays (16) are detachably mounted inside the
20 holders (10'), the CD storage case can be easily assembled.

21 Even though numerous characteristics and advantages of the present
22 invention have been set forth in the foregoing description, together with details
23 of the structure and function of the invention, the disclosure is illustrative only,
24 and changes may be made in detail, especially in matters of shape, size, and

- 1 arrangement of parts within the principles of the invention to the full extent
- 2 indicated by the broad general meaning of the terms in which the appended
- 3 claims are expressed.